IRON AND STEEL ENGINEER INDEX FOR 1959

Herewith is presented the index of all authors and papers published in the IRON AND STEEL ENGINEER for the year 1959

LIST OF AUTHORS

A

ABELL, D. E. and REID, WARREN—"Selection and Control of Electrical Equipment for Modern Foil Mills," July, 1959, Page 89.
ADAMS, RICHARD W.—"Layout and Design of the Ashland Sintering Plant," June, 1959, Page 114.
ANDREAS, R. A.—"How to Determine Continuous Annealing Line Output for Different Strip Widths and Thicknesses," June, 1959, Page 93.
ANGLE, J. E.—"The Role of the Industrial Engineer in the Steel Industry," August, 1959, Page 63.
ARANT, N. R.—"Fire Cracking in Rolling Mill Rolls," November, 1959, Page 100.
ARMITAGE, RICHARD F.—"Organizing a Steel Plant Preventive Maintenance Program," September, 1959, Page 100.

B

BAILEY, C. A. and COOPER, A. C.—"Maintenance of Mill Oil Bearings," November, 1959, Page 65.
BAILEY, E. T. W.—"Special Features of Stelco's New Soaking Pits," July, 1959, Page 72.
BARNITZ, R. W. and SHAKELY, H. H.—"Recent Developments in Design and Control of Hot Strip Mills," April, 1959, Page 89.
BARTH, E. W., FITZSIMMONS, K. W., FISH, H. KERMIT, and SHIELDS, J. R., DR.—"Mechanical Inching Drives—Application and Operational Aspects—Engineering Aspects," January, 1959, Page 109.
BAUER, J. W., JR.—"Many Circuits Over Two Wires," March, 1959, Page 133.
BEHNE, NEAL J., DIENER, H. C., JR., and ERBE, J. RAYMOND—"Static Control Provides Blast Furnace Automation," February, 1959, Page 127.
BERG, BENGT R.—"Development of a New Horizontal-Flow, Plate-Type Precipitator for Blast Furnace Gas Cleaning," October, 1959, Page 93.
BERG, D. R. and DORMSJO, T. OLAF—"The Kaldo Oxygen Steelmaking Process—Its Metallurgy and Economics," April, 1959, Page 67.
BIGGE, HENRY C. and REID, ELLIOTT A.—"Vacuum Pouring for Large Forging Production," April, 1959, Page 128.
BIRD, JOHN—"Metallurgical Control in Construction and Maintenance," August, 1959, Page 101.
BISHOP, WILLIAM O. and FRAME, CHARLES P.—"New Screening and Sinter Plant Facilities at Inland Steel Co." June, 1959, Page 108.
BLACKBURN, ROBERT A. and UDY, MARVIN J., DR.—"The Strategic-Udy Direct Iron Reduction Process," November, 1959, Page 109.
BLOOM, QUENTIN M.—"Continuous Annealing 60 Tons per Hour of Tin Plate," February, 1959, Page 115.
BRANDT, ALLEN D.—"The Air Pollution Situation Today with Special References to Control Legislation," January, 1959, Page 103.
BROSOVIC, J. A.—"Electric Arc Furnace Analysis Via Photography," November, 1959, Page 85.
BROWNING, E. H.—"The Part Played by the Electrical Manufacturer." July, 1959, Page 107.
BUTLER, J. E. and COOK, WILLARD G.—"Electrical Equipment for a High Speed Annealing Line," March, 1959, Page 89.

C

CAMPBELL, C. G.—"Bifurcation of Open Hearth Furnaces," October, 1959, Page 126.
CHRISTENSEN, H. W.—"Are Our Purchasing Concepts Keeping Pace with Progress?" December, 1959, Page 79.
CLOSE, CHARLES D.—"Industrial Telemetering Systems," November, 1959, Page 94.
COBAUGH, GEORGE D. and HAUTH, CHARLES R.—"Monolithic Refractory Construction in Steel Plant Equipment," May, 1959, Page 110.
COOK, WILLARD G. and BUTLER, J. E.—"Electrical Equipment for a High-Speed Annealing Line," March, 1959, Page 89.
COOPER, A. C. and BAILEY C. A.—"Maintenance of Mill Oil Bearings," November, 1959, Page 65.
CRAMER, JOHN C.—"Incentive Trends in the Steel Industry," May, 1959, Page 144.
CUNNINGHAM, K. D.—"Application of Cushioning Material Under Crane Rails," June, 1959, Page 99.

D

DENNE, E. C., JR.—"Recent Developments in Roll Neck Bearing Design and Mounting," May, 1959, Page 117.
DeYOUNG, H. GEORGE—"Why Don't 'They' Do Something About It?" June, 1959, Page 87.
DIENER, H. C., JR., ERBE, J. RAYMOND and BEHNE, NEAL, J.—"Static Control Provides Blast Furnace Automation," February, 1959, Page 127.
DILL, GILBERT D.—"Mechanical Blast-Cleaning of Carbon and Alloy Steel Strip," February, 1959, Page 149.
DORMSJO, T. OLAF and BERG, D. R.—"The Kaldo Oxygen Steelmaking Process—Its Metallurgy and Economics," April, 1959, Page 67.
DRISCOLL, DAN H.—"Mobile Units Reduce Plant Material Handling Costs," October, 1959, Page 133.

E

EICHENBERG, C. L.—"Power Dispatching in a Steel Mill," September, 1959, Page 133.
ERBE, J. RAYMOND, BEHNE, NEAL J. and DIENER, H. C., JR.—"Static Control Provides Blast Furnace Automation," February, 1959, Page 127.
ESS, T. J.—"Atlas Steels Ltd.," April, 1959, Page A-1.
ESS, T. J.—"Inland Steel Company—Indiana Harbor Works," September, 1959, Page I-1.
ESS, T. J., "United States Steel's Geneva Works," June, 1959, Page G-3.
ESS, T. J., "Jones & Laughlin—Cleveland Works," February, 1959, Page 85.
EWALT, R. W. and RICE, O. D.—"Recent Furnace Installations," April, 1959, Page 102.

F

FERTAL, WILLIAM J. and MADOR, MILTON E.—"The Direct Reading Spectrograph and Its Use," October, 1959, Page 138.

FISH, H. KERMIT, SHIELDS, J. R., DR., BARTH, E. W., and FITZSIMMONS, K. W.—"Mechanical Inching Drives—Application and Operational Aspects—Engineering Aspects," January, 1959, Page 109.
FITZSIMMONS, K. W., FISH, H. KERMIT, SHIELDS, J. R., DR., and BARTH, E. W.—"Mechanical Inching Drives—Application and Operational Aspects—Engineering Aspects," January 1959, Page 109.
FRAME, CHARLES P. and BISHOP, WILLIAM O.—"New Screening and Sinter Plant Facilities at Inland Steel Co.," June, 1959, Page 108.
FROSTICK, H. G.—"The Role of the Steel Mill Engineer," July, 1959, Page 111.
FUGASSI, L. A.—"Advances at Weirton," March, 1959, Page 65.

G

GAKNER, ALEXANDER—"The Battle for Steel Supremacy—The Soviet Union Leads in Raw Materials," November, 1959, Page 117.
GHERST, R. H. and WORLEY, R. W.—"Utilization of By-Product Fuels," August, 1959, Page 67.
GONNI, M., DR.—"The Venezuelan Steel Works," May, 1959, Page 71.
GRAVENSTRETER, P. R.—"A Constant Horsepower Computer—Permitting the Use of Slip Couplings for Winder Drives," January, 1959, Page 79.
GREAVES, MELVIN J., DR.—"Statistical Computations Increase Production," January, 1959, Page 99.
GREENBERGER, J. I.—"Rolling of Metals," March, 1959, Page 99.

H

HAGAN, J. LEO—"Rapid Heat Acceleration in the Soaking Pits at Fairless Works," June, 1959, Page 95.
HALL, HENRY S.—"Modern Regenerative Soaking Pits," October, 1959, Page 83.
HANCKE, DIETER and HARTENSTEIN, ROBERT—"Recent Developments in Pipe and Tube Mill Machinery," August, 1959, Page 83.
HANLEY, E. J.—"The Minutes of the Last Meeting," July, 1959, Page 67.
HARTENSTEIN, ROBERT and HANCKE, DIETER—"Recent Developments in Pipe and Tube Mill Machinery," August, 1959, Page 83.
HARTENSTEIN, ROBERT and THURMAN, ASTOR L.—"Mannesmann's New Seamless Mill at Sault Ste Marie," February, 1959, Page 139.
HAUTH, CHARLES R. and COBAUGH, GEORGE D.—"Monolithic Refractory Constructions in Steel Plant Equipment," May, 1959, Page 110.
HENSCHEN, H. C.—"Modern Design of Slab Reheating Furnaces," October, 1959, Page 75.
HOGAN, WILLIAM T., S.J.—"Increased Costs of Production in Steel: The Problem and Possible Solution," April, 1959, Page 83.
HOLBROOK, D. S.—"Foreign Competition—A Challenge to American Industry," September, 1959, Page 156.
HOLLINGSWORTH, P.—"Gear Couplings for Steel Mill Drives," July, 1959, Page 125.
HUTCHINGS, P. E.—"Instrumentation," June, 1959, Page 80.

J

JEDENOFF, G. A.—"Quality Control at Pittsburg Works," December, 1959, Page 127.
JENTER, DONALD H.—"Increased Production Through Electrolytic Tinning Line Modernization," October, 1959, Page 145.
JORTNER, DONALD, OSTERLE, J. FLETCHER, and ZOROWSKI, CARL F.—"An Analysis of the Mechanics of Cold Strip Rolling," May, 1959, Page 127.

K

KELLER, J. D.—"Continuous Annealing in Molten Sodium," November, 1959, Page 125.
KIRKLAND, W. G.—"Cold Forming Practice in the United States," November, 1959, Page 134.
KOEPF, A. H.—"A Review of Aluminum Cranes," March, 1959, Page 69.

L

LITTLE, GEORGE C. and TILLMAN, JAMES M.—"The Expansion Program at Sparrows Point," February, 1959, Page 69.
LOOFBORO, K. S.—"J&L's Cleveland Works Sinter Plant," June, 1959, Page 101.
LOUGHREY, D. R.—"The Basic Oxygen Process—Jones & Laughlin Steel Corp.," December, 1959, Page 110.

Mc

McCLURG, C. F.—"Maintenance Organization and Training," October, 1959, Page 113.
McCULLOUGH, J. D.—"Application of Special Refractory Materials in the Iron and Steel Industry," September, 1959, Page 172.
McMAHAN, J. S.—"Experience with Self-Fluxing Sinter at the Steel Co. of Canada, Limited," August, 1959, Page 108.

M

MADOR, MILTON E. and FERTAL, WILLIAM J.—"The Direct Reading Spectrograph and Its Use," October, 1959, Page 138.
MADSEN, I. E.—"Developments in the Iron and Steel Industry During 1958," January, 1959, Page 112.
MADSEN, I. E.—"Coke and By-Products in 1958," December, 1959, Page 133.
MAYNARD, HAROLD B.—"Controlling Maintenance Costs," March, 1959, Page 111.
MENG, GEORGE J.—"Evaluation of Soaking Pit Requirements for an Expansion Program," March, 1959, Page 117.
MOBLEY, L. S.—"Republic's Flat Rolled Expansion in the South," May, 1959, Page 94.
MORGAN, C. R.—"Open Hearth Slag Handling," October, 1959, Page 129.
MOSES, LOUIS—"Mathematical Aids to Determine Spread and Reduction Rates in Rolling," December, 1959, Page 65.
MOSSO, A. J.—"Cost Estimating—Metal Working Plants," September, 1959, Page 87.

N

NOLAN, R. G., SCHLECHTE, A. W., PEEPLES, R. M., and Rea, D. E.—"Granite City Doubles Horsepower of Tandem Cold Mill," December, 1959, Page 117.

O

O'NEILL, DANIEL J.—"Design and Performance of Industrial Lighting Systems," December, 1959, Page 95.
OSBORN, R. J.—"Maintenance Applications of Welding," September, 1959, Page 107.
OSTERLE, J. FLETCHER, ZOROWSKI, CARL F. and JORTNER, DONALD—"An Analysis of the Mechanics of Cold Strip Rolling," May, 1959, Page 127.

P

PEARSON, CHELSIE K.—"Production of Di-Ammonium Phosphate," October, 1959, Page 122.
PEEPLES, R. M., SCHLECHTE, A. W., NOLAN, R. G. and REA, D. E.—"Granite City Doubles Horsepower of Tandem Cold Mill," December, 1959, Page 117.
PETERSON, E. C.—"Mechanical Manipulation in Bar Mills," January, 1959, Page 67.
PRINCE, E. J.—"L-D Process for Making Basic Oxygen Steel," September, 1959, Page 185.
PRINCE, HARRY C.—"Fatigue Failures in Ore Bridges—A Review," July 1959, Page 80.

R

REA, D. E.—"Electrical Equipment for a Modern Sheet Temper Mill," May, 1959, Page 97.
REA, D. E., SCHLECHTE, A. W., NOLAN, R. G., and PEEPLES, R. M.—"Granite City Doubles Horsepower of Tandem Cold Mill," December, 1959, Page 117.
RECTENWALD, R. L.—"Cyclic Welding Method Salvages Heavy Mill Equipment," September, 1959, Page 117.
REID, ELLIOTT A. and BIGGE, HENRY C.—"Vacuum Pouring for Large Forging Production," April, 1959, Page 128.
REID, WARREN and ABELL, D. E.—"Selection and Control of Electrical Equipment for Modern Foil Mills," July, 1959, Page 89.
RICE, O. D. and EWALT, R. W.—"Recent Furnace Installations," April, 1959, Page 102.
RICH, F. M.—"Russian Steelmaking," July, 1959, Page 63.
RODDER, WILLIAM—"Application of Stretch Reducing of Tubes for Greater Production and Economy," July, 1959, Page 100.
RODMAN, SAYRE and WHETZEL, J. C., Jr.—"Improved Lubrication in Cold Strip Rolling," March, 1959, Page 123.
ROGERS, GUY L. and WELLS, J. D.—"Atomization of Open Hearth Fuel Oil with High-Pressure Gas," December, 1959, page 87.
RUSSELL, EDWARD B.—"Thermit Welding Structural Mill Rolls," June, 1959, Page 123.

S

SAIGO, KICHIRO—"Present Situation of Japanese Steel Industry," June, 1959, Page 69.
SAMSON, DAVID HUGH—"From Ingot to Ingot in Fifteen Days—Replacing a 27-In. Universal Slabbing Mill with a 38 x 66-In. Slabbing Mill on the Same Site," October, 1959, Page 102.
SCHLECHTE, A. W., NOLAN, R. G., PEEPLES, R. M. and REA, D. E.—"Granite City Doubles Horsepower of Tandem Cold Mill," December, 1959, Page 117.

SCHUBERT, H. V.—"Immersion Thermocouple Practice," January, 1959, Page 91.
SELAK, PATRICK J. and TIETIG, RUDOLPH, JR.—"Nuclear Energy Applications for Steel Plant Operations," September, 1959, Page 179.
SHAKELY, H. H. and BARNITZ, R. W.—"Recent Developments in Design and Control of Hot Strip Mills," April, 1959, Page 89.
SHATTUCK, A. DONALD—"New Material Handling Facilities," April, 1959, Page 79.
SHEFFLER, R. W.—"Closed Circuit Television in the Fairless Works," September, 1959, Page 167.
SHIELDS, J. R., DR., BARTH, E. W., FITZSIMMONS, K. W., and FISH, H. KERMIT—"Mechanical Inching Drives—Application and Operational Aspects—Engineering Aspects," January, 1959, Page 109.
SILLS, R. M. and TERWILLIGER, G. E.—"Present Status and Trends in Data Processing and Programming in the Steel Industry," August, 1959, Page 72.
SMITH, W. K.—"Electronic Data Processing," September, 1959, Page 160.
SMITH, W. O.—"Electrical Controls," June, 1959, Page 75.
SMUCKER, RICHARD A.—"Perfected and Practical Methods of Processing Powder into Commercial Strip," July, 1959, Page 118.
STANZIONE, LOUIS A.—"An Approach to Wire Rope Lubrication," September, 1959, Page 126.
STOVER, WILLIAM L.—"Automatic Continuous Lubrication of Universal Mill Spindles," June, 1959, Page 89.

T

TERWILLIGER, G. E. and SILLS, R. M.—"Present Status and Trends in Data Processing and Programming in the Steel Industry," August, 1959, Page 72.
THURMAN, ASTOR L. and HARTENSTEIN, ROBERT—"Mannesmann's New Seamless Mill at Sault Ste. Marie," February, 1959, Page 139.
TIETIG, RUDOLPH, JR., and SELAK, PATRICK J.—"Nuclear Energy Applications for Steel Plant Operations," September, 1959, Page 179.
TILLMAN, JAMES M. and LITTLE, GEORGE C.—"The Expansion Program at Sparrows Point," February, 1959, Page 69.

U

UDY, MARVIN J., DR. and BLACKBURN, ROBERT A.—"The Strategic-Udy Direct Iron Reduction Process," November, 1959, Page 109.

W

WATSON, GEORGE W.—"Weirton No. 2 Sinter Plant," June, 1959, Page 105.
WELLS, J. D. and ROGERS, GUY L.—"Atomization of Open Hearth Fuel Oil with High-Pressure Gas," December, 1959, Page 87.
WHETZEL, J. C., JR., and RODMAN, SAYRE—"Improved Lubrication in Cold Strip Rolling," March, 1959, Page 123.
WHITE, R. H.—"Basic Characteristics," June, 1959, Page 75.
WITTS, JOHN—"Design, Construction and Maintenance," August, 1959, Page 92.
WORLEY, R. W. and GHERST, R. H.—"Utilization of By-Product Fuels," August, 1959, Page 67.
WORTHINGTON, LESLIE, B.—"A Challenge to Engineers," July, 1959, Page 136.

Z

ZAPATA, JUAN—"Compania De Acero Del Pacifico, Chile—Its Inception and Growth," April, 1959, Page 111.
ZOROWSKI, CARL F., JORTNER, DONALD and OSTERLE, J. FLETCHER—"An Analysis of the Mechanics of Cold Strip Rolling," May, 1959, Page 127.
ZWEIFEL, C. H.—"A New Concept in Crane Control," February, 1959 Page 105.

LIST OF SUBJECTS

A

"Abstracts of Technical Papers to Be Presented at AISE Annual Convention," September, 1959, Page 144.
"Abstracts of Technical Papers to Be Presented at AISE Spring Conference"—April, 1959, Page 120.
"Abstracts of Technical Papers to Be Presented at AISE Western Meeting," May, 1959, Page 140.
"Advances at Weirton"—By L. A. FUGASSI, March, 1959, Page 65.
"Air Pollution Situation Today With Special References to Control Legislation, The"—By ALLEN D. BRANDT, January, 1959, Page 103.
"AISE Annual Convention—Pictorial Review," October, 1959, Page 142.
"AISE Annual Convention—Program 1959," September, 1959, Page 140.
"AISE District Chairmen—1958–1959," March, 1959, Page 108.
"AISE National Committees, 1959," January, 1959, Page 89.
"AISE Officers and Directors, 1959," January, 1959, Page 86.
"AISE Spring Conference, Pictorial Roundup," May, 1959, Page 136.
"AISE Spring Conference, Program"—April, 1959, Page 118.
"AISE Western Meeting—Pictorial Review," July, 1959, Page 134.
"AISE Western Meeting—Program," May, 1959, Page 138.
"Analysis of the Mechanics of Cold Strip Rolling, An"—By DONALD JORTNER, J. FLETCHER OSTERLE and CARL F. ZOROWSKI, May, 1959, Page 127.
"Annealing in Molten Sodium, Continuous"—By J. D. KELLER, November, 1959, Page 125.
"Annealing Line Output for Different Strip Widths and Thicknesses, How to Determine"—By R. A. ANDREAS, June, 1959, Page 93.
"Annealing 60 Tons per Hour of Tin Plate, Continuous"—By QUENTIN M. BLOOM, February, 1959, Page 115.
"Annealing Line, Electrical Equipment for a High-Speed"—By J. E. BUTLER and WILLARD G. COOK, March, 1959, Page 89.
"Application of Cushioning Material Under Crane Rails,"—By K. D. CUNNINGHAM, June, 1959, Page 99.
"Application of Special Refractory Materials in the Iron and Steel Industry"—By J. D. McCULLOUGH, September, 1959, Page 172.
"Application of Stretch Reducing of Tubes for Greater Production and Economy"—By WILLIAM RODDER, July, 1959, Page 100.
"Approach to Wire Rope Lubrication, An"—By LOUIS A. STANZIONE, September, 1959, Page 126.
"Ashland Sintering Plant, Layout and Design of the"—By RICHARD W. ADAMS, June, 1959, Page 114.
"Atlas Steels Ltd."—By T. J. ESS, April, 1959, Page A-1.
"Atomization of Open Hearth Fuel Oil with High-Pressure Gas"—By J. D. WELLS and GUY L. ROGERS, December, 1959, Page 87.
"Automatic Continuous Lubrication of Universal Mill Spindles"—By WILLIAM L. STOVER, June, 1959, Page 87.
"Automation, Static Control Provides Blast Furnace"—By NEAL J. BEHNE, H. C. DIENER, JR., and J. RAYMOND ERBE, February, 1959, Page 127.

B

"Bar Mills, Mechanical Manipulation in"—By E. C. PETERSON, January, 1959, Page 67.
"Basic Characteristics—New Operational Features on Patricia Blast Furnace at Fairless Works:"—By R. H. WHITE, June, 1959, Page 75.
"Basic Oxygen Process—Jones & Laughlin Steel Corp., The"—By D. R. LOUGHREY December, 1959, Page 110.
"Battle for Steel Supremacy—The Soviet Union Leads in Raw Materials, The"—By ALEXANDER GAKNER, November, 1959, Page 117.
"Bearing Design and Mounting, Recent Developments in Roll Neck"—By E. C. DENNE, JR., May, 1959, Page 117.
"Bearings, Maintenance of Mill Oil"—By C. A. BAILEY and A. C. COOPER, November, 1959, Page 65.
"Bifurcation of Open Hearth Furnaces"—By C. G. CAMPBELL, October, 1959, Page 126.
"Blast-Cleaning of Carbon and Alloy Steel Strip, Mechanical"—By GILBERT D. DILL, February, 1959, Page 149.
"Blast Furnace Automation, Static Control Provides"—By NEAL J. BEHNE, H. C. DIENER, JR., and J. RAYMOND ERBE, February, 1959, Page 127.
"Blast Furnace at Fairless Works: New Operational Features on Patricia"—By R. H. WHITE, W. O. SMITH and P. E. HUTCHINGS, June, 1959, Page 75.
"Blast Furnace Gas Cleaning, Development of a New Horizontal-Flow, Plate-Type, Precipitator for"—By BENGT R. BERG, October, 1959, Page 93.
"Bridges—A Review, Fatigue Failures in Ore"—By HARRY C. PRINCE, July, 1959, Page 80.
"By-Product Fuels, Utilization of"—By R. W. WORLEY and R. H. GHERST, August, 1959, Page 67.

C

"Chairmen—1958–1959, AISE District"—March, 1959, Page 108.
"Challenge to Engineers, A"—By LESLIE B. WORTHINGTON, July, 1959, Page 136.
"Chile—Its Inception and Growth, Compania De Acero Del Pacifico"—By JUAN ZAPATA, April, 1959, Page 111.
"Circuits Over Two Wires, Many"—By J. W. BAUER, JR., March, 1959, Page 133.
"Cleaning, Development of a New Horizontal-Flow, Plate-Type Precipitator for Blast Furnace Gas"—By BENGT R. BERG, October, 1959, Page 93.
"Cleveland Works, Jones & Laughlin"—By T. J. ESS, February, 1959, Page 85.
"Closed Circuit Television in the Fairless Works"—By R. W. SHEFFLER, September, 1959, Page 167.
"Coke and By-Products in 1958"—By I. E. MADSEN, December, 1959, Page 133.
"Cold Forming Practice in the United States"—By W. G. KIRKLAND, November, 1959, Page 134.
"Cold Mill, Granite City Doubles Horsepower of Tandem"—By A. W. SCHLECHTE, R. G. NOLAN, R. M. PEEPLES and D. E. REA, December, 1959, Page 117.
"Cold Strip Rolling, An Analysis of the Mechanics of"—By DONALD JORTNER, J. FLETCHER OSTERLE and CARL F. ZOROWSKI, May, 1959, Page 127.

"Compania De Acero Del Pacifico, Chile—Its Inception and Growth"—By JUAN ZAPATA, April, 1959, Page 111.
"Computer—Permitting the Use of Slip Couplings for Winder Drives, A Constant Horsepower"—By P. R. GRAVENSTRETER, January, 1959, Page 79.
"Constant Horsepower Computer—Permitting the Use of Slip Couplings for Winder Drives, A"—By P. R. GRAVENSTRETER, January, 1959, Page 79.
"Continuous Annealing in Molten Sodium"—By J. D. KELLER, November, 1959, Page 125.
"Continuous Annealing 60 Tons per Hour of Tin Plate"—By QUENTIN M. BLOOM, February, 1959, Page 115.
"Control in Construction and Maintenance, Metallurgical"—By JOHN BIRD, August, 1959, Page 101.
"Controlling Maintenance Costs"—By HAROLD B. MAYNARD, March, 1959, Page 111.
"Cost Estimating—Metal Working Plants"—By A. J. MOSSO, September, 1959, Page 87.
"Costs of Production in Steel: The Problem and Possible Solution, Increased"—By WILLIAM T. HOGAN, S. J., April, 1959, Page 83.
"Couplings for Steel Mill Drives, Gear"—By P. HOLLINGSWORTH, July, 1959, Page 125.
"Couplings for Winder Drives, A Constant Horsepower Computer—Permitting the Use of Slip"—By P. R. GRAVENSTRETER, January, 1959, Page 79.
"Cracking in Rolling Mill Rolls, Fire"—By N. R. ARANT, November, 1959, Page 100.
"Cranes, A Review of Aluminum"—By A. H. KOEPF, March, 1959, Page 69.
"Cranes at Stelco:, EOT,"—By JOHN WITTS, and JOHN BIRD, August, 1959, Page 92.
"Crane Control, A New Concept in"—By C. H. ZWEIFEL, February, 1959, Page 105.
"Crane Rails, Application of Cushioning Material Under"—By K. D. CUNNINGHAM, June, 1959, Page 99.
"Cushioning Material Under Crane Rails, Application of"—By K. D. CUNNINGHAM, June, 1959, Page 99.
"Cyclic Welding Method Salvages Heavy Mill Equipment"—By R. L. RECTENWALD, September, 1959, Page 117.

D

"Data Processing and Programming in the Steel Industry, Present Status and Trends in"—By R. M. SILLS and G. E. TERWILLIGER, August, 1959, Page 72.
"Data Processing, Electronic"—By W. K. SMITH, September, 1959, Page 160.
"Design and Performance of Industrial Lighting Systems"—By DANIEL J. O'NEILL, December, 1959, Page 95.
"Design, Construction and Maintenance"—By John Witts, August, 1959, Page 92.
"Developments in the Iron and Steel Industry During 1958"—By I. E. MADSEN, January, 1959, Page 112.
"Development of a New Horizontal-Flow, Plate-Type Precipitator for Blast Furnace Gas Cleaning"—By BENGT R. BERG, October, 1959, Page 93.
"Di-Ammonium Phosphate, Production of"—By CHELSIE K. PEARSON, October, 1959, Page 122.
"Direct Iron Reduction Process, The Strategic-Udy"—By DR. MARVIN J. UDY and ROBERT A. BLACKBURN, November, 1959, Page 109.
"Dispatching in a Steel Mill, Power"—By C. L. EICHENBERG, September, 1959, Page 133.
"Drives, Gear Couplings for Steel Mill"—By P. HOLLINGSWORTH, July, 1959, Page 125.

E

"Electric Arc Furnace Analysis Via Photography"—By J. A. BROSOVIC, November, 1959, Page 85.
"Electrical Controls, New Operational Features on Patricia Blast Furnace at Fairless Works:"—By W. O. SMITH, June, 1959, Page 75.
"Electrical Equipment for a High-Speed Annealing Line,"—By J. E. BUTLER and WILLARD G. COOK, March, 1959, Page 89.
"Electrical Equipment for a Modern Sheet Temper Mill"—By D. E. REA, May, 1959, Page 97.
"Electrical Equipment for Modern Foil Mills, Selection and Control of"—By WARREN REID and D. E. ABELL, July, 1959, Page 89.
"Electrical Manufacturer, The Part Played by the"—By E. H. BROWNING, July 1959, Page 107.
"Electrolytic Tinning Line Modernization, Increased Production Through"—By DONALD H. JENTER, October, 1959, Page 145.
"Electronic Data Processing"—By W. K. SMITH, September, 1959, Page 160.
"Engineer, The Role of the Steel Mill"—By H. G. FROSTICK, July, 1959, Page 111.
"Engineers, A Challenge to"—By LESLIE B. WORTHINGTON, July, 1959, Page 136.
"EOT Cranes at Stelco:"—By JOHN WITTS and JOHN BIRD, August, 1959, Page 92.
"Estimating—Metal Working Plants, Cost"—By A. J. MOSSO, September, 1959, Page 87.
"Evaluation of Soaking Pit Requirements for an Expansion Program"—By GEORGE J. MENG, March, 1959, Page 117.
"Expansion Program at Sparrows Point, The"—By GEORGE C. LITTLE and JAMES M. TILLMAN, February, 1959, Page 69.
"Experience with Self-Fluxing Sinter at the Steel Co. of Canada, Limited"—By J. S. McMAHAN, August, 1959, Page 108.

F

"Fairless Works, Closed Circuit Television in the"—By R. W. SHEFFLER, September, 1959, Page 167.
"Fairless Works: New Operational Features on Patricia Blast Furnace at"—By R. H. WHITE, W. O. SMITH and P. E. HUTCHINGS, June, 1959, Page 75.
"Fairless Works, Rapid Heat Acceleration in the Soaking Pits at"—By J. LEO HAGAN, June, 1959, Page 95.
"Fatigue Failures in Ore Bridges—A Review"—By HARRY C. PRINCE, July, 1959, Page 80.
"Fire Cracking in Rolling Mill Rolls"—By N. R. ARANT, November, 1959, Page 100.
"Flat Rolled Expansion in the South, Republic's"—By L. S. MOBLEY, May, 1959, Page 94.
"Foil Mills, Selection and Control of Electrical Equipment for Modern"—By WARREN REID and D. E. ABELL, July, 1959, Page 89.
"Foreign Competition—A Challenge to American Industry"—By D. S. HOLBROOK, September, 1959, Page 156.
"Forming Practice in the United States, Cold"—By W. G. KIRKLAND, November, 1959, Page 134.
"From Ingot to Ingot in Fifteen Days—Replacing a 27 In. Universal Slabbing Mill with a 38 x 66 In. Slabbing Mill on The Same Site"—By DAVID HUGH SAMSON, October, 1959, Page 102.
"Fuels, Utilization of By-Product"—By R. W. WORLEY and R. H. GHERST, August, 1959, Page 67.
"Furnace Analysis Via Photography, Electric Arc"—By J. A. BROSOVIC, November, 1959, Page 85.
"Furnace Installations, Recent"—By O. D. RICE and R. W. EWALT, April, 1959, Page 102.
"Furnaces, Modern Design of Slab Reheating"—By H. C. HENSCHEN, October, 1959, Page 75.

G

"Gas, Atomization of Open Hearth Fuel Oil with High-Pressure"—By J. D. WELLS and GUY L. ROGERS, December, 1959, Page 87.
"Gear Couplings for Steel Mill Drives"—By P. HOLLINGSWORTH, July, 1959, Page 125.
"Geneva Works, United States Steel's"—By T. J. ESS, June, 1959, Page G-3.
"Granite City Doubles Horsepower of Tandem Cold Mill"—By A. W. SCHLECHTE, R. G. NOLAN, R. M. PEEPLES and D. E. REA, December, 1959, Page 117.

H

"Heat Acceleration in the Soaking Pits at Fairless Works, Rapid"—By J. LEO HAGAN, June, 1959, Page 95.
"How to Determine Continuous Annealing Line Output for Different Strip Widths and Thicknesses"—By R. A. ANDREAS, June, 1959, Page 93.

I

"Immersion Thermocouple Practice"—By H. V. SCHUBERT, January, 1959, Page 91.
"Improved Lubrication in Cold Strip Rolling"—By J. C. WHETZEL, JR., and SAYRE RODMAN, March, 1959, Page 123.
"Incentive Trends in the Steel Industry"—By JOHN C. CRAMER, May, 1959, Page 144.
"Inching Drives, Mechanical"—By H. KERMIT FISH, DR. J. R. SHIELDS E. W. BARTH and K. W. FITZSIMMONS, January, 1959, Page 109.
"Increased Costs of Production in Steel: The Problem and Possible Solution"—By WILLIAM T. HOGAN, S. J., April, 195 , Page 83.
"Increased Production Through Electrolytic Tinning Line Modernization"—By DONALD H. JENTER, October, 1959, Page 145.
"Industrial Engineer in the Steel Industry, The Role of the"—By J. E. ANGLE, August, 1959, Page 63.
"Industrial Telemetering Systems"—By CHARLES D. CLOSE, November, 1959, Page 94.
"Inland Steel Company—Indiana Harbor Works,"—By T. J. ESS, September, 1959, Page I-1.
"Inland Steel Co., New Screening and Sinter Plant Facilities at"—By WILLIAM O. BISHOP and CHARLES P. FRAME, June, 1959, Page 108.
"Instrumentation—New Operational Features on Patricia Blast Furnace at Fairless Works:"—By P. E. HUTCHINGS, June, 1959, Page 75.
"Iron and Steel Industry During 1958, Developments in the"—By I. E. MADSEN, January, 1959, Page 112.

J

"Japanese Steel Industry, Present Situation of"—By KICHIRO SAIGO, June, 1959, Page 69.
"Jones & Laughlin—Cleveland Works"—By T. J. ESS, February, 1959, Page 85.
"J&L's Cleveland Works Sinter Plant"—By K. S. LOOFBORO, June, 1959, Page 101.
"Jones & Laughlin Steel Corp., The Basic Oxygen Process"—By D. R. LOUGHREY, December, 1959, Page 110.

K

"Kaldo Oxygen Steelmaking Process—Its Metallurgy and Economics, The"—By T. OLAF DORMSJO and D. R. BERG, April, 1959, Page 67.

L

"Layout and Design of the Ashland Sintering Plant"—By RICHARD W. ADAMS, June, 1959, Page 114.
"L-D Process for Making Basic Oxygen Steel"—By E. J. PRINCE, September, 1959, Page 185.
"Lighting Systems, Design and Performance of Industrial"—By DANIEL J. O'NEILL, December, 1959, Page 95.
"Lubrication, An Approach to Wire Rope"—By LOUIS A. STANZIONE, September, 1959, Page 126.
"Lubrication in Cold Strip Rolling, Improved"—By J. C. WHETZEL, JR., and SAYRE RODMAN, March, 1959, Page 123.
"Lubrication of Universal Mill Spindles, Automatic Continuous"—By WILLIAM L. STOVER, June, 1959, Page 89.

M

"Maintenance Applications of Welding"—By R. J. OSBORN, September, 1959, Page 107.
"Maintenance Costs, Controlling"—By HAROLD B. MAYNARD, March, 1959, Page 111.
"Maintenance of Mill Oil Bearings"—By C. A. BAILEY and A. C. COOPER, November, 1959, Page 65.
"Maintenance Organization and Training"—By C. F. McCLURG, October, 1959, Page 113.
"Maintenance Program, Organizing a Steel Plant Preventive"—By RICHARD F. ARMITAGE, September, 1959, Page 100.
"Mannesmann's New Seamless Mill at Sault Ste. Marie"—By ROBERT HARTENSTEIN and ASTOR L. THURMAN, February, 1959, Page 139.
"Many Circuits Over Two Wires"—By J. W. BAUER, JR., March, 1959, Page 133.
"Material Handling Costs, Mobile Units Reduce Plant"—By DAN H. DRISCOLL, October, 1959, Page 133.
"Material Handling Facilities, New"—By A. DONALD SHATTUCK, April, 1959, Page 79.
"Mathematical Aids to Determine Spread and Reduction Rates in Rolling"—By LOUIS MOSES, December, 1959, Page 65.
"Mechanical Blast-Cleaning of Carbon and Alloy Steel Strip"—By GILBERT D. DILL, February, 1959, Page 149.
"Mechanical Inching Drives"—By H. KERMIT FISH, DR. J. R. SHIELDS, E. W. BARTH and K. W. FITZSIMMONS, January, 1959, Page 109.
"Mechanical Manipulation in Bar Mills"—By E. C. PETERSON, January, 1959, Page 67.
"Metallurgical Control in Construction and Maintenance"—By JOHN BIRD, August, 1959, Page 101.
"Minutes of the Last Meeting, The"—By E. J. HANLEY, July, 1959, Page 67.
"Mobile Units Reduce Plant Material Handling Costs"—By DAN H. DRISCOLL, October, 1959, Page 133.
"Modern Design of Slab Reheating Furnaces"—By H. C. HENSCHEN, October, 1959, Page 75.
"Modern Regenerative Soaking Pits"—By HENRY S. HALL, October, 1959, Page 83.
"Monolithic Refractory Constructions in Steel Plant Equipment"—By GEORGE D. COBAUGH and CHARLES R. HAUTH, May, 1959, Page 110.

N

"National Committees, 1959, AISE"—January, 1959, Page 89.
"New Concept in Crane Control, A"—By C. H. ZWEIFEL, February, 1959, Page 105.
"New Material Handling Facilities"—By A. DONALD SHATTUCK, April, 1959, Page 79.
"New Operational Features on Patricia Blast Furnace at Fairless Works"—By R. H. WHITE, W. O. SMITH, and P. E. HUTCHINGS, June, 1959, Page 75.
"New Screening and Sinter Plant Facilities at Inland Steel Co."—By WILLIAM O. BISHOP and CHARLES P. FRAME, June, 1959, Page 108.
"Nuclear Energy Applications for Steel Plant Operations"—By PATRICK J. SELAK and RUDOLPH TIETIG, JR., September, 1959, Page 179.

O

"Officers and Directors, 1959, AISE"—January, 1959, Page 86.
"Oil With High-Pressure Gas, Atomization of Open Hearth Fuel"—By J. D. WELLS and GUY L. ROGERS, December, 1959, Page 87.
"Open Hearth Fuel Oil with High-Pressure Gas, Atomization of"—By J. D. WELLS and GUY L. ROGERS, December, 1959, Page 87.
"Open Hearth Furnaces, Bifurcation of"—By C. G. CAMPBELL, October, 1959, Page 126.
"Open Hearth Slag Handling"—By G. R. MORGAN, October, 1959, Page 129.
"Organizing a Steel Plant Preventive Maintenance Program"—By RICHARD F. ARMITAGE, September, 1959, Page 100.
"Ore Bridges—A Review, Fatigue Failures in"—By HARRY C. PRINCE, July, 1959, Page 80.
"Oxygen Process—Jones & Laughlin Steel Corp., The Basic"—By D. R. LOUGHREY, December, 1959, Page 110.
"Oxygen Steel, L-D Process for Making Basic"—By E. J. PRINCE, September, 1959, Page 185.
"Oxygen Steelmaking Process—Its Metallurgy and Economics, The Kaldo"—By T. OLAF DORMSJO and D. R. BERG, April, 1959, Page 67.

P

"Perfected and Practical Methods of Processing Powder into Commercial Strip"—By RICHARD A. SMUCKER, July, 1959, Page 118.
"Photography, Electric Arc Furnace Analysis Via—By J. A. BROSOVIC, November, 1959, Page 85.
"Pictorial Review—AISE Annual Convention," October, 1959, Page 142.
"Pictorial Review—AISE Western Meeting," July, 1959, Page 134.
"Pictorial Roundup—AISE Spring Conference," May, 1959, Page 136.
"Pipe and Tube Mill Machinery, Recent Developments in"—By DIETER HANCKE and ROBERT HARTENSTEIN, August, 1959, Page 83.
"Pit Requirements for an Expansion Program, Evaluation of Soaking"—By GEORGE J. MENG, March, 1959, Page 117.
"Pittsburg Works, Quality Control at"—By C. A. JEDENOFF, December, 1959, Page 127.
"Pollution Situation Today with Special References to Control Legislation, The Air"—By ALLEN D. BRANDT, January, 1959, Page 103.
"Pouring for Large Forging Production, Vacuum"—By HENRY C. BIGGE and ELLIOTT A. REID, April, 1959, Page 128.
"Powder into Commercial Strip, Perfected and Practical Methods of Processing"—By RICHARD A. SMUCKER, July, 1959, Page 118.
"Power Dispatching in a Steel Mill"—By C. L. EICHENBERG, September, 1959, Page 133.
"Precipitator for Blast Furnace Gas Cleaning, Development of a New Horizontal-Flow, Plate-Type"—By BENGT R. BERG, October, 1959, Page 93.
"Present Situation of Japanese Steel Industry"—By KICHIRO SAIGO, June, 1959, Page 69.
"Present Status and Trends in Data Processing and Programming in the Steel Industry"—By R. M. SILLS and G. E. TERWILLIGER, August, 1959, Page 72.
"President's Message, The"—January, 1959, Page 84.
"Preventive Maintenance Program, Organizing a Steel Plant"—By RICHARD F. ARMITAGE, September, 1959, Page 100.
"Process Programming of Automatically Controlled Rolling Mills"—By E. H. BROWNING and H. G. FROSTICK, July, 1959, Page 107.
"Production of Di-Ammonium Phosphate"—By CHELSIE K. PEARSON, October, 1959, Page 122.
"Program—1959 AISE Annual Convention"—September, 1959, Page 140.
"Program—AISE Spring Conference"—April, 1959, Page 118.
"Program–AISE Western Meeting"—May, 1959, Page 138.
"Programming in the Steel Industry, Present Status and Trends in Data Processing and"—By R. M. SILLS, and G. E. TERWILLIGER, August, 1959, Page 72.
"Programming of Automatically Controlled Rolling Mills: Process"—By E. H. BROWNING and H. G. FROSTICK, July, 1959, Page 107.
"Purchasing Concepts Keeping Pace with Progress? Are Our"—By H. W. CHRISTENSEN, December, 1959, Page 79.

Q

"Quality Control at Pittsburg Works"—By G. A. JEDENOFF, December, 1959, Page 127.

R

"Rapid Heat Acceleration in the Soaking Pits at Fairless Works"—By J. LEO HAGAN, June, 1959, Page 95.
"Raw Materials, The Battle for Steel Supremacy—The Soviet Union Leads in"—By ALEXANDER GAKNER, November, 1959, Page 117.
"Recent Developments in Design and Control of Hot Strip Mills"—By R. W. BARNITZ and H. H. SHAKELY, April, 1959, Page 89.
"Recent Developments in Pipe and Tube Mill Machinery"—By DIETER HANCKE and ROBERT HARTENSTEIN, August, 1959, Page 83.

"Recent Developments in Roll Neck Bearing Design and Mounting"—By E. C. DENNE, JR., May, 1959, Page 117.
"Recent Furnace Installations"—By O. D. RICE and R. W. EWALT, April, 1959, Page 102.
"Refractory Construction in Steel Plant Equipment, Monolithic"—By GEORGE D. COBAUGH and CHARLES R. HAUTH, May, 1959, Page 110.
"Refractory Materials in the Iron and Steel Industry, Application of Special"—By J. D. McCULLOUGH, September, 1959, Page 172.
"Republic's Flat Rolled Expansion in the South"—By L. S. MOBLEY, May, 1959, Page 94.
"Review of Aluminum Cranes, A"—By A. H. KOEPF, March, 1959, Page 69.
"Role of the Industrial Engineer in the Steel Industry, The"—By J. E. ANGLE, August, 1959, Page 63.
"Rolling, Improved Lubrication in Cold Strip"—By J. C. WHETZEL, JR., and SAYRE RODMAN, March, 1959, Page 123.
"Rolling, Mathematical Aids to Determine Spread and Reduction Rates in"—By LOUIS MOSES, December, 1959, Page 65.
"Rolling Mills: Process Programming of Automatically Controlled"—By E. H. BROWNING and H. G. FROSTICK, July, 1959, Page 107.
"Rolling of Metals"—By J. I. GREENBERGER, March, 1959, Page 99.
"Roll Neck Bearing Design and Mounting, Recent Developments"—By E. C. DENNE, JR., May, 1959, Page 117.
"Rolls, Fire Cracking in Rolling Mill"—By N. R. ARANT, November, 1959, Page 100.
"Rolls, Thermit Welding Structural Mill"—By EDWARD B. RUSSELL, June, 1959, Page 123.
"Russian Steelmaking"—By F. M. RICH, July, 1959, Page 63.

S

"Sault Ste. Marie, Mannesmann's New Seamless Mill at"—By ROBERT HARTENSTEIN and ASTOR L. THURMAN, February, 1959, Page 139.
"Seamless Mill at Sault Ste. Marie, Mannesmann's New"—By ROBERT HARTENSTEIN and ASTOR L. THURMAN, February, 1959, Page 139.
"Selection and Control of Electrical Equipment for Modern Foil Mills"—By WARREN REID and D. E. ABELL, July, 1959, Page 89.
"Sinter at the Steel Co. of Canada, Limited, Experience with Self-Fluxing"—By J. S. McMAHAN, August, 1959, Page 108.
"Sinter Plant Facilities at Inland Steel Co., New Screening and"—By WILLIAM O. BISHOP and CHARLES P. FRAME, June, 1959, Page 108.
"Sintering Plant, Layout and Design of the Ashland"—By RICHARD W. ADAMS, June, 1959, Page 114.
"Sinter Plant, J&L's Cleveland Works"—By K. S. LOOFBORO, June, 1959, Page 101.
"Sinter Plant, Weirton No. 2"—By GEORGE W. WATSON, June, 1959, Page 105.
"Sinter Plants: Symposium on"—By K. S. LOOFBORO, GEORGE W. WATSON, WILLIAM O. BISHOP, CHARLES P. FRAME, and RICHARD W. ADAMS, June, 1959, Page 101.
"Slabbing Mill with a 38 x 66-In. Slabbing Mill on the Same Site, from Ingot to Ingot in Fifteen Days—Replacing a 27-In. Universal"—By DAVID HUGH SAMSON, October, 1959, Page 102.
"Slab Reheating Furnaces, Modern Design of"—By H. C. HENSCHEN, October, 1959, Page 75.
"Slag Handling, Open Hearth"—By G. R. MORGAN, October, 1959, Page 129.
"Soaking Pits at Fairless Works, Rapid Heat Acceleration in the"—By J. LEO HAGAN, June, 1959, Page 95.
"Soaking Pits, Modern Regenerative"—By HENRY S. HALL, October, 1959, Page 83.
"Soaking Pits, Special Features of Stelco's New"—By E. T. W. BAILEY, July, 1959, Page 72.
"Soviet Union Leads in Raw Materials, The Battle for Steel Supremacy—The"—By ALEXANDER GAKNER, November, 1959, Page 117.
"Sparrows Point, The Expansion Program at"—By GEORGE C. LITTLE and JAMES M. TILLMAN, February, 1959, Page 69.
"Special Features of Stelco's New Soaking Pits"—By E. T. W. BAILEY, July, 1959, Page 72.
"Spectrograph and Its Use, The Direct Reading"—By WILLIAM J. FERTAL and MILTON E. MADOR, October, 1959, Page 138.
"Spindles, Automatic Continuous Lubrication of Universal Mill"—By WILLIAM L. STOVER, June, 1959, Page 89.
"Spread and Reduction Rates in Rolling, Mathematical Aids to Determine"—By LOUIS MOSES, December, 1959, Page 65.
"Spring Conference, Abstracts of Technical Papers to Be Presented at AISE"—April, 1959, Page 120.
"Spring Conference, Pictorial Roundup, AISE"—May, 1959, Page 136.
"Spring Conference, Program—AISE"—April, 1959, Page 118.
"Static Control Provides Blast Furnace Automation"—By NEAL J. BEHNE, H. C. DIENER, JR., and J. RAYMOND ERBE, February, 1959, Page 127.
"Statistical Computations Increase Production"—By DR. MELVIN J. GREAVES January, 1959, Page 99.
"Steel Co. of Canada, Limited, Experience with Self-Fluxing Sinter at the"—By J. S. McMAHAN, August, 1959, Page 108.
"Steel Industry, Present Situation of Japanese"—By KICHIRO SAIGO, June, 1959, Page 69.
"Steelmaking, Process—Its Metallurgy and Economics, The Kaldo Oxygen"—T. OLAF DORMSJO and D. R. BERG, April, 1959, Page 67.
"Steelmaking, Russian"—By F. M. RICH, July, 1959, Page 63.
"Stelco: EOT Cranes at"—By JOHN WITTS, and JOHN BIRD August, 1959, Page 92.
"Stelco's New Soaking Pits, Special Features of"—By E. T. W. BAILEY, July, 1959, Page 72.
"Strategic-Udy Direct Iron Reduction Process, The"—By DR. MARVIN J. UDY and ROBERT A. BLACKBURN, November, 1959, Page 10^.
"Stretch Reducing of Tubes for Greater Production and Economy, Application of"—By WILLIAM RODDER, July, 1959, Page 100.
"Strip Mills, Recent Developments in Design and Control of Hot"—By R. W. BARNITZ and H. H. SHAKELY, April, 1959, Page 89.
"Strip, Perfected and Practical Methods of Processing Powder into Commercial Strip"—By RICHARD A. SMUCKER, July, 1959, Page 118.
"Symposium on Sinter Plants:—By K. S. LOOFBORO, GEORGE W. WATSON WILLIAM O. BISHOP, CHARLES P. FRAME, and RICHARD W. ADAMS"—June, 1959, Page 101.

T

"Tandem Cold Mill, Granite City Doubles Horsepower of Operating"—By A. W. SCHLECHTE, R. G. NOLAN, R. M. PEEPLES and D. E. REA, December, 1959, Page 117.
"Telemetering Systems, Industrial"—By CHARLES D. CLOSE, November, 1959, Page 94.
"Television in the Fairless Works, Closed Circuit"—By R. W. SHEFFLER, September, 1959, Page 167.
"Temper Mill, Electrical Equipment for a Modern Sheet"—By D. E. REA, May, 1959, Page 97.
"The Direct Reading Spectrograph and Its Use"—By WILLIAM J. FERTAL and MILTON E. MADOR, October, 1959, Page 138.
"Thermit Welding Structural Mill Rolls"—By EDWARD B. RUSSELL, June, 1959, Page 123.
"Thermocouple Practice, Immersion"—By H. V. SCHUBERT, January, 1959, Page 91.
"Tinning Line Modernization, Increased Production Through Electrolytic"—By DONALD H. JENTER, October, 1959, Page 145.
"Tube Mill Machinery, Recent Developments in Pipe and"—By DIETER HANCKE and ROBERT HARTENSTEIN—August, 1959, Page 83.
"Tubes for Greater Production and Economy, Application of Stretch Reducing of"—By WILLIAM RODDER, July, 1959, Page 100.

U

"United States Steel's Geneva Works"—By T. J. ESS, June, 1959, Page G-3.
"Universal Slabbing Mill with a 38 x 66-In. Slabbing Mill on the Same Site, From Ingot to Ingot in Fifteen Days—Replacing a 27-In."—By DAVID HUGH SAMSON, October, 1959, Page 102.
"Utilization of By-Product Fuels"—By R. W. WORLEY and R. H. GHERST, August, 1959, Page 67.

V

"Vacuum Pouring for Large Forging Production"—By HENRY C. BIGGE and ELLIOTT A. REID, April, 1959, Page 128.
"Venezuelan Steel Works, The"—By DR. M. GONNI, May, 1959, Page 71.

W

"Weirton, Advances at"—By L. A. FUGASSI, March, 1959, Page 65.
"Weirton No. 2. Sinter Plant"—By GEORGE W. WATSON, June, 1959, Page 105.
"Welding, Maintenance Applications of"—By R. J. OSBORN, September, 1959, Page 107.
"Welding Method Salvages Heavy Mill Equipment, Cyclic"—By R. L. RECTENWALD, September, 1959, Page 117.
"Welding Structural Mill Rolls, Thermit"—By EDWARD B. RUSSELL, June, 1959, Page 123.
"Western Meeting, Program—AISE—May, 1959, Page 138.
"Why Don't 'They' Do Something About It?"—By H. GEORGE De YOUNG, June, 1959, Page 87.
"Winder Drives, A Constant Horsepower Computer—Permitting the Use of Slip Couplings for"—By P. R. GRAVENSTRETER, January, 1959, Page 79.
"Wire Rope Lubrication, An Approach to"—By LOUIS A. STANZIONE, September, 1959, Page 126.

"1958, Coke and By-Products in"—By I. E. MADSEN, December, 1959, Page 133.
"1958—Developments in the Iron and Steel Industry During"—By I. E. MADSEN, January, 1959, Page 112.